

BIDDING AND CONTRACT DOCUMENTS

CITY OF ASHEVILLE

CENTRAL BUSINESS DISTRICT WATER SYSTEM UPGRADES WC 07-08-007

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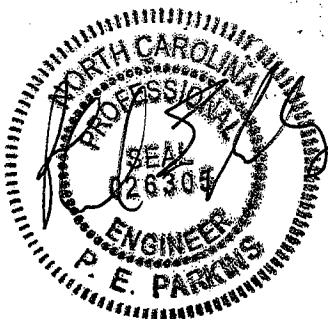
ADDENDUM NO. 1

ISSUE DATE: October 3, 2007

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Bidders on this Central Business District Water System Upgrades project are hereby notified that this Addendum shall be attached to and made a part of the above named Bidding and Contract Documents dated September 2007.

The following items add to, modify, and clarify the Bidding and Contract Documents and shall have the full force and effect of the original Documents. Bids shall conform to those items and the cost change, if any, of these items shall be included in this Bid Price. This Addendum shall be acknowledged by the Bidder on Page 00300-1 of the Bid Form, Section 00300 of the Bidding and Contract Documents.



10-3-07

## **IN THE PROJECT MANUAL**

### **Section 00100: Instructions to Bidders**

1. Section 00100-3, insert new paragraph 3.6 as follows:

"3.6 Bid Alternate No. 1 shall be entered in the Bid Form. The total amount for the alternate shall be determined by multiplying each unit price bid by the quantity for that item and shall be written in figures. Either "Add" or "Deduct" shall be circled to indicate whether this alternate is an addition to the Total Amount or a deduction from the Total Amount."

2. Section 00100-3, renumber existing paragraph 3.6 to 3.7.
3. Section 00100-3, renumber existing paragraph 3.7 to 3.8.
4. Section 00100-3, renumber existing paragraph 3.8 to 3.9.
5. Section 00100-3, renumber existing paragraph 3.9 to 3.10.
6. Section 00100-3, renumber existing paragraph 3.10 to 3.11.
7. Section 00100-3, renumber existing paragraph 3.11 to 3.12.
8. Section 00100-3, renumber existing paragraph 3.12 to 3.13.
9. Section 00100-3, renumber existing paragraph 3.13 to 3.14.
10. Section 00100-3, renumber existing paragraph 3.14 to 3.15.

### **Section 00300: Bid Form**

1. Delete this section in its entirety and replace with the attached revised Section 00300.

### **Section 00855, Drawings Index**

1. Drawing C-13, change title to "College Street 10 in. and 24 in. Relocation, STA 0+00 to STA 5+12."

### **Section 01014: Construction Sequence**

1. Section 01014, delete paragraph 1.05.A.10 in its entirety and replace with the following:

"10. The new water main on College Street shall be installed, tested, and placed in service before any work is begun on Lexington Avenue or Broadway Avenue. The existing water mains on Lexington Avenue and on Broadway Avenue shall be connected to the new 24-inch water main on College Street and shall remain in service until the new water mains on Lexington Avenue and Broadway Avenue are installed, tested, and placed in service."

#### Section 01015: Measurement and Payment

1. Section 01015-3.01.B.1.o, after the words “including rock” and before the words “and backfill”, insert the words “concrete, brick, trolley car base and rails, or other materials.”
2. Section 01015-3.02.A.1, in the first sentence after the words “water main pipe fittings sizes” insert the words “6-inch.”
3. Section 01015-3.09
  - a. Delete subparagraph B.1.g in its entirety and replace with the following:

“Asphalt removal and replacement if the installation of the service connection is installed by the punch method.”
  - b. In subparagraph B.2, replace the words “Bid Items 15 and 17” with “Bid Items 18 and 20.”
4. Section 01015-3.10, delete paragraph in its entirety and replace with the following paragraph:

**“ITEM 10 – FURNISH AND INSTALL NEW SERVICE CONNECTIONS AND METER BOXES ON NCDOT ROADS BY PUNCH METHOD**

##### **A. Measurement**

1. This item includes furnishing all materials, equipment, and labor required to install new service connections from the new water main to the existing water meters. The Contractor shall be responsible for connecting all existing water meters to the new water main and shall provide new connection piping and new meter box. The Contractor shall relocate and reinstall the existing water meter in the new water meter box.

##### **B. Payment**

1. Payment for the above work will be made according to the existing water meter sizes at the unit price bid in the Schedule of Prices which price and payment shall include, but not be limited to, full compensation for:
    - a) Tapping of new water main
    - b) Service connection and piping
    - c) Meter set and valves
    - d) Meter box
    - e) Removal and reinstallation of existing meter
    - f) Removal and disposal of existing meter box
    - g) Any seeding or mulching required if boxes are located in grassed areas
  2. Payment for concrete sidewalk and curb and gutter shall be included under Bid Items 18 and 20, respectively.”
5. Section 01015-3.10, renumber paragraph to “3.11” and replace “Item 10” with “Item 11”.

6. Section 01015-3.11
  - a. Renumber paragraph to “3.12.”
  - b. Replace “Item 11” with “Item 12.”
  - c. In the heading for the paragraph, insert the word “EXISTING” after the words “CONNECTIONS AND” and before the word “FIRE.”
7. Section 01015-3.12, renumber paragraph to “3.13” and replace “Item 12” with “Item 13.”
8. Section 01015-3.13
  - a. Renumber paragraph to “3.14” and replace “Item 13” with “Item 14.”
  - b. Renumber the subparagraph B such that the last paragraph is “3.”
  - c. In the renumbered paragraph 3, replace the words “Bid Items 17, 19 and 16” with “Bid Items 18, 20, and 17.”
9. Section 01015-3.14, renumber paragraph to “3.15” and replace “Item 14” with “Item 15.”
10. Section 01015-3.15, renumber paragraph to “3.16” and replace “Item 15” with “Item 16.”
11. Section 01015-3.16, renumber paragraph to “3.17” and replace “Item 16” with “Item 17.”
12. Section 01015-3.17, renumber paragraph to “3.18” and replace “Item 17” with “Item 18.”
13. Section 01015-3.18, renumber paragraph to “3.19” and replace “Item 18” with “Item 19.”
14. Section 01015-3.19, renumber paragraph to “3.20” and replace “Item 19” with “Item 20.”
15. Section 01015-3.20, renumber paragraph to “3.21” and replace “Item 20” with “Item 21.”
16. Section 01015-3.21, renumber paragraph to “3.22” and replace “Item 21” with “Item 22.”
17. Section 01015-3.22, renumber paragraph to “3.23” and replace “Item 22” with “Item 23.”
18. Section 01015-3.23
  - a. Renumber paragraph to “3.24” and replace “Item 23” with “Item 24.”
  - b. Replace the words “Item 25” with “Item 26.”
19. Section 01015-3.24
  - a. Renumber paragraph to “3.25.”
  - b. Replace the words “Bid Items 1 through 23” with “Bid Items 1 through 24.”

20. Section 01015-3.25, renumber paragraph to “3.26.”

21. Section 01015-3.27

- a. Renumber paragraph to “3.27” to new paragraph “3.31.”
- b. Replace paragraph 3.27 with new paragraph “3.27” as follows:

“ITEM 26 – TRAFFIC SIGNALIZATION ALLOWANCE

1. This allowance shall be paid to the Contractor for payment to city-designated contractors for restoration of traffic signalization loops in project areas.
2. This work shall be completed by others.
3. Any allowance not used shall be credited back to the Owner.

22. Section 01015-3.28

- a. Renumber paragraph to “3.28” to new paragraph “3.32.”
- b. Replace paragraph 3.28 with new paragraph “3.28” as follows:

“ITEM 27 – FURNISH AND INSTALL DUCTILE IRON WATER MAIN IN NCDOT ROADS BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M.

1. This item includes furnishing all materials, equipment, and labor required to install, clean, and test the ductile iron water pipe and fittings in NCDOT roads during the hours of 10:00 p.m. and 6:00 a.m. where shown on the Drawings, excavation, and backfill and all other appurtenances as specified and as shown on the Drawings and Details including (a) through (ff) in Item 1.”

23. Section 01015-3.29

- a. Renumber paragraph “3.29” to new paragraph “3.33.”
- b. Replace paragraph 3.29 with new paragraph “3.33” as follows:

“ITEM 28 – TOTAL BASE BID

1. This item represents the total of items 1 through 27.”

23. Section 01015 – Add new paragraph “3.34” as follows:

“ITEM 29 – BID ALTERNATE 1

1. This item includes furnishing all materials, equipment, and labor required to install, clean, and test 10” Class 350 ductile iron pipe as shown on the Drawings; excavation and backfill; and all other appurtenances, as specified and as shown on the Drawings and Details including (a) through (ff) in Item 4.”

## Section 02700: Water Service

1. Section 02700-3.01, insert new paragraph C as follows:

“C. Contractor shall install all water services on NCDOT roads by the punch method. No open trenching shall be permitted. NCDOT roads on this project are Broadway Avenue, College Street from Charlotte Street east to the tunnel and Tunnel Road.”

2. Section 02700-3.01, insert new paragraph D, as follows:

“D. Contractor shall install all water services on City roads by either open trenching or the punch method. City roads on this project include all roads except those roads called out in paragraph C, above, as ‘NCDOT roads’.”

## **IN THE DRAWINGS**

### Cover

1. Index of Drawings – Change the title of sheet C-13 to “College Street 10 in. and 24 in. Relocation, STA 0+00 to STA 5+12”.

### Drawing C-1, Legend and General Notes

1. Modify Note 5 by inserting “bore pit” after the word “No” and before the words “excavations shall.”
2. Modify Note 12 by adding the following sentence after the last sentence: “No additional payment or increase to the construction schedule shall be granted as a result of working outside normal business hours.”
3. Modify Note 34 by inserting “and sidewalk access open on both sides of roads” after the words “(unless otherwise shown on the drawings)” and before the words “at all times.”
4. Modify Note 39 by inserting the words “but less than 6”” after the words “greater than 2 ”” and before the words “in diameter shall.” Also insert the following sentences after the second sentence: “Any tree greater than 6” in diameter shall be completely protected during all phases of construction. No exhaust from equipment shall be allowed to come in contact with foliage or branches of such trees. Any deviation from this requirement shall be approved by the Engineer or Owner in advance of the work.”
5. Modify Note 44 by deleting the words “8 feet of sidewalk” and inserting “10 feet of sidewalk or to the nearest construction joint.”
6. Delete existing Note 46 and replace with the following:

“46. All road surfaces shall be milled and resurfaced following water main installation in accordance with the details herein. With the exception of Tunnel Road and College Street, all road surfaces shall be milled and resurfaced from edge of pavement to edge of pavement. Tunnel road shall be milled and resurfaced from edge of pavement to the right-of-way centerline. College Street shall be milled and resurfaced from edge of pavement to edge of

pavement from STA 0+00 to STA 16+40. From STA 16+40 to STA 43+00, College Street shall be milled and resurfaced from near edge of pavement to the right-of-way centerline. From STA 43+00 to STA 56+50, College Street shall be milled and resurfaced from edge of pavement to edge of pavement.”

7. Add new note 47 as follows:

“47. The Contractor is advised that planned construction is located on old city streets. Contractor may encounter varying widths and depths of old roadway construction material including but not limited to concrete, brick and trolley car base and rails.”

8. Add new note 48 as follows:

“48. The following roads on the project are NCDOT roads: Broadway Avenue, College Street from Charlotte Street east to the tunnel, and Tunnel Road.”

9. Add new note 49 as follows:

“49. The term “abandon in place” or “abandoned in place” is defined as cutting and separating an existing water main or service from the rest of the water system at a location designated by the Engineer or Owner. The line that is being abandoned shall then be plugged with concrete.”

10. Add new note 50 as follows:

“50. See Drawings CD-6 and CD-7 for traffic control details and notes for all roads.”

11. Add new note 51 as follows:

“51. Alignment of the water mains both vertically and horizontally shall be accomplished by utilizing allowable deflection in the pipe joints, fittings, couplings, spool pieces, etc. The bends shown on the drawings provide general information regarding the water main alignment. The Contractor shall be responsible for estimating and providing any and all necessary fittings, couplings, spool pieces, etc., necessary to complete the water main as aligned on the plans at no additional cost to the Owner, unless approval is obtained from the Engineer or Owner prior to ordering and installing the fitting.”

#### Drawing C-3, Eagle Street 8 in. Water Main

1. Add to call out for existing sidewalk between Biltmore Avenue and Market Street the word “Brick.”
2. Add the following call out at intersection of Biltmore Avenue and Eagle Street referencing the two existing water mains on Eagle Street that connect to an existing 8-inch water main on Biltmore Avenue:

“Contractor shall abandon the two existing water lines on Eagle Street at a location just east of each existing valve approved by the Engineer. The existing lines shall be plugged. If the existing valve is restrained, the plug may be installed without additional restraint. If the existing valve is not restrained, the plug shall be installed with restraint.”

#### Drawing C-4, Hilliard Avenue 8 in. Water Main

1. Add call out for “Gas line” parallel to and 10 feet east of the existing overhead electric line at the intersection of Ravenscroft Avenue and Hilliard Avenue.
2. Add call out for “Existing water main to be abandoned in place” to existing water main located between the new water main on Hilliard Avenue and the tie-in to the existing 8-inch water main in Church Street.
3. Add call out for “Storm Sewer” to the unlabeled existing utility located east of the centerline of Church Street extending north and south.
4. Add call out on existing water main between Church Street and Lexington Avenue for “Existing water main to be abandoned in place.”

#### Drawing C-5, Biltmore/Broadway Avenue 16 in. Water Main

1. Add new note 9 as follows:

“9. Installation of the new water main on Broadway Avenue shall not begin until the installation of the new 24” water main on College Street is completed and placed in service. The existing water main on Broadway Avenue shall be connected to the new 24” water main on College Street and remain in service until the new water main on Broadway Avenue is installed and placed in service.”
2. Add call out for “Two planters” across from Broadway Avenue entrance to I-240 between the two existing services on the west side of Broadway Avenue on the sidewalk.
3. Add call out for “Planter with trees and scrubs” on both the west and east side of existing brick crosswalk located 120 feet south of the matchline on the upper plan.
4. Add following call out at intersection of Walnut Street and Broadway Avenue for connection to existing water main extending west on Walnut Street:

“16” Main Connection – 16” x 16” x 8” DI RJ Tee and 8” MJ Gate Valve. Provide sufficient 8” RJ DIP to extend connection outside limits of Broadway Avenue then reduce as necessary to connect to existing water main on Walnut Street. Provide RJ DIP as needed and MJ couplings to connect to existing pipe. Size of existing water main unknown.”

#### Drawing C-6, North Lexington Avenue 8 in. Water Main

1. Delete in its entirety Note 7 and replace with the following new Note 7:

“7. Installation of the new water main on North Lexington Avenue shall not begin until the installation of the new 24” water main on College Street is completed and placed in service. The Contractor shall confirm the location of potentially 3 existing water mains on North Lexington Avenue: one under the sidewalk on the east side of North Lexington Avenue, one under the sidewalk on the west side of North Lexington Avenue, and one as shown in North Lexington Avenue. These mains shall be connected to the new 24” water main on College Street and remain in service until the new water main on North Lexington Avenue is installed and placed in service. The 8” stub out shown on Drawing C-8 may be utilized for the purpose



of connecting the existing water mains to the new College Street water main until the new water main on North Lexington Avenue is installed.”

2. Add symbol for “Water meter” and “new service connection” to new water main approximately 100 feet from the intersection of College Street and Lexington Avenue on the east side.

3. Add new Note 8 as follows:

“8. Construction in the area of Lexington Avenue and I-240 for a separate construction project has begun. This construction may impact the location of the new water main as shown on the Drawings. Actual location will be determined in the field. Contractor shall coordinate with Engineer in advance of beginning work in this area.”

#### Drawing C-7, Roberts Street 12 in. Water Main

1. Add new note 9 as follows:

“9. The location of the new 12” DIP water main shall be generally as shown based on the field location of the existing water main and the existing sanitary sewer. Deviation to the alignment shown shall not be made without the approval of the Engineer. There will be no additional payment made for fittings required to alter the pipe alignment, unless Engineer or Owner approval is obtained in advance.”

#### Drawing C-8, College Street STA 0+00 To STA 12+00, 24 in. Water Main

1. A revised Drawing C-8 is attached herein. This revised Drawing reflects changes to the profile only. All other addendum items noted below apply.

2. At approximate STA 7+40, add the following call out:

“24” main connection, provide 24” DI RJ Tee and MJ Gate Valve to connect existing main. Provide RJ DIP as needed and MJ couplings to connect to existing pipe. (Size of existing unknown) Refer to Drawing C-6 for location of existing water main on North Lexington Avenue.”

3. At approximate STA 10+40, add the following call out:

“24” main connection, provide 24” DI RJ Tee and MJ Gate Valve to connect existing main. Provide RJ DIP as needed and MJ couplings to connect to existing pipe. (Size of existing unknown.) Refer to Drawing C-5 for location of existing water main on Broadway Avenue.”

4. Add the following new note 7:

“7. Installation of the new water main on North Lexington Avenue and Broadway Avenue shall not begin until the installation of the new 24” water main on College Street is completed and the new main placed in service. The existing water mains on North Lexington Avenue and Broadway Avenue shall be connected to the new 24” water main on College Street and remain in service until the new water mains on North Lexington Avenue and Broadway Avenue are installed and placed in service. During the installation of the new 24” water main on College, a section of new water main with a valve and cap shall be installed that extends

out of the right-of-way of College Street at North Lexington Avenue and Broadway Avenue for the purpose of connection to the new water mains on both streets.”

5. Add the following to the end of the call out for the 24-inch main connection call out at the intersection of Broadway Avenue and College Street for the connection to the new 16-inch water main on Broadway Avenue:

“See Sheet C-5 for continuation.”

6. Add the following new note 8:

“8. New building construction is underway on the south side of Patton Avenue directly across from Sta. 0+00. Contractor shall coordinate new water main construction with new building construction.

4. Add call out for “Sidewalk” between Haywood Street and Rankin Avenue on north side of College Street.
5. Add call out for “Brick Sidewalk” between Rankin Avenue and Lexington Avenue on north side of College Street.
6. Add call out for “Brick Sidewalk” between Broadway Avenue and Market Street on south side of College Street.

Drawing C-9, College Street STA 12+00 To STA 24+00. 24 in. Water Main

1. A revised Drawing C-9 is attached herein. This revised Drawing reflects changes to the profile only. All other addendum items noted below apply.

2. Add symbol for “Water meter” and “new service connection” to new water main at approximately STA 19+45 and at STA 22+90.

3. Add the following new note 6:

“6. New building is under construction at the northwest corner of the intersection of Oak Street extending west. Contractor shall coordinate new water main construction with new building construction.

4. Add the following new note 7:

“7. The concrete islands with pedestrian and vehicle breaks located between Spruce Street and STA 24+00 shall be repaired if damaged during construction to existing or better conditions.”

5. Add call out for “Planter with 14”maple” at approximately STA 15+00 on the north side of College Street on the sidewalk.
6. Add call out for “Planter with 10” maple” at approximately STA 14+65 on the north side of College Street on the sidewalk.

7. Add call out for “Planter” at approximately STA 18+50 on the north side of College Street on the sidewalk.
8. Add call out for “Planter” at approximately STA 19+50 on the north side of College Street on the sidewalk.
9. Add call out for “Planter” at approximately STA 21+25 on the north side of College Street on the sidewalk.
10. Add call out for “8 foot wide sidewalk” beginning at approximately STA 21+25 and continuing to STA 24+00 on the north side of College Street.

Drawing C-10, College Street STA 24+00 To STA 36+00, 24 in. Water Main

1. A revised Drawing C-10 is attached herein. This revised Drawing reflects changes to the profile only. All other addendum items noted below apply.
2. Add new note 7 as follows:

“7. The concrete island with pedestrian and vehicle breaks between Oak Street and Charlotte Street shall be repaired if damaged during construction to existing or better condition.”

Drawing C-11, College Street STA 36+00 To STA 48+00, 24 in. Water Main

1. In reference to the 24-inch DI water main, revise drawing to include one 24” MJ butterfly valve south of bore location at:

STA 0+05.33  
N 691713.81  
E 947355.25

2. In reference to the 24-inch DI water main, revise drawing to include one 24” MJ butterfly valve south of bore location at:

STA 43+33.81  
N 691713.43  
E 947347.32

3. In reference to the 24-inch DI water main at STA 42+70, revise the profile to provide 18 inches of clearance between the existing 18-inch storm sewer and the new water main

Drawing C-12, College Street STA 48+00 To STA 56+15

1. Add call out for “Overhead electric” crossing the road at both STA 51+80 and STA 54+10.
2. In reference to the 24-inch DI water main, revise the drawing to relocate the 45-degree DI MJ bend at STA 55+31.73 to the following location:

STA 55+24.66  
N 690919.03  
E 947799.39  
CL EL 2334.67

3. In reference to the 24-inch DI water main, revise drawing to relocate the 22.5 degree DI MJ bend at STA 55+73.10 to the following location:

STA 55+59.82  
N 690893.66  
E 947775.05  
CL EL 2336.21

4. In reference to the 24-inch DI water main, revise drawing to relocate the 24" x 24" x 6" DI RJ Tee at STA 55+79 to the following location:

STA 55+81.46  
CL EL 2326.62

5. In reference to the 24-inch DI water main, revise drawing to relocate the tie in to the existing butterfly valve to the following location:

STA 56+14.12  
CL EL 2340.42 +/-

6. Add new note 9 as follows:

"9. The location of the new 24" DIP water main shall be generally as shown based on the field location of the existing water main and the existing sanitary sewer. Deviation to the alignment shown shall not be made without the approval of the engineer. There will be no additional payment made for fittings required to alter the pipe alignment unless Engineer or Owner approval is obtained in advance."

7. At the tie-in of the new 10" water main to the existing 10" high pressure water main, delete the call out for "10" 90 degree DI RJ Bend" and replace with "contractor shall install DI RJ fittings as necessary to make tie in. All bends shall be 45 degrees or less."

#### Drawing C-13, College Street STA 0+00 To STA 5+12

1. Change the title to "College Street 10 in. and 24 in. Relocation, STA 0+00 to STA 5+12".
2. Delete the call out at STA 5+11.70 in the profile and replace with the following note:

"Elevation of existing 24" and 10" DIP are unknown. Contractor shall expose the existing 24" and 10" DIP at this location. Owner shall provide direction regarding specific location of the connection to the existing pipes. Contractor shall make necessary connections with RJ DIP."

#### Drawing C-14, Tunnel Road, 8 in. Water Main

1. Add to the end of the call out for the 8-inch main connection located approximately 260 feet west of the match line on the upper plan the following:

"Connection is to existing 8" water main extending to the east across Tunnel Road."

Drawing C-15, Tunnel Road STA 0+00 To STA 12+00

1. In reference to the profile drawing, all water main elevation call outs refer to the centerline of the pipe unless they specifically say invert elevation.
2. Add call out at approximately STA 4+25 for the road to the west of Tunnel Road for “Mineral Springs.”
3. Add the following call out at STA 5+95 for the existing meter located on the west side of Tunnel Road :

“Existing meter is located in heavily landscaped area. Contractor shall protect all landscaping during construction.”

Drawing C-16, Tunnel Road STA 12+00 To STA 20+50

1. In reference to the profile drawing, all water main elevation callouts refer to the centerline of the pipe, unless they specifically say invert elevation.

Drawing C-17, Tunnel Road STA 20+50 To STA 26+47

1. In reference to the profile drawing, all water main elevation callouts refer to the centerline of the pipe, unless they specifically say invert elevation.
2. Add call out at island located east of Kenilworth Road and west of Tunnel Road for “Tree Protection, see Detail B/CD-1.”
3. In Note 5, add the word “on” after the word “connections” and before the word “abandoned.”
4. Add the following call out at island located east of Kenilworth Road and west of Tunnel Road:

“Access to business to be maintained at all times.”

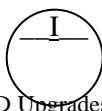
Drawing CD-1, Erosion and Sediment Control Details

1. Detail B – Tree Protection – Add new Note 3 as follows:

“3. Any tree greater than 6 inches in diameter shall be completely protected during all phases of construction. No exhaust from equipment shall be allowed to come in contact with foliage or branches of such trees. Any deviation from this requirement shall be approved by the Engineer or Owner in advance of the work.”

Drawing CD-5, Miscellaneous Details

1. Detail G – North Lexington Ave/Broadway Ave Interconnection – Where the 8-inch DI water main crosses over the sanitary sewer on the east side of North Lexington Avenue, add call out:



Utility Crossing – Provide fittings as needed see Note 1

2. Detail G – North Lexington Ave/Broadway Ave Interconnection – add new note 1 as follows:

“1. Contractor shall replace existing sanitary sewer with DIP wherever 10-foot horizontal separation between sanitary sewer and water main is not maintained and for 10 feet each side of crossing wherever water main crosses under sanitary sewer.”

3. Detail G – North Lexington Ave/Broadway Ave Interconnection – delete 8” water main connection on North Lexington Ave to the existing water main. Add a restrained plug on the existing water main.

Drawing CD-7, Traffic Control Details

1. Add new General Traffic Control Notes 1 through 23 as follows:

“1. Traffic control plans for this project consist of several typical details showing traffic control devices to be used where various types of construction activities are occurring on the project. These details are for typical situations and should be adapted to the actual field conditions which exist. Due to unforeseen field situations, it may be impossible to adapt the prescribed typical details exactly as shown to the actual field situations. The contractor, at the direction of the Engineer, shall move, supplement, change, and/or remove the traffic control devices associated with these typical details to ensure that the motorist can pass through the construction area in a safe and efficient manner.

2. Construction activities may dictate that two or more typical details be used in one area of construction. Channelizing devices associated with these typical details shall be moved, supplemented, changed, or removed as required by the construction activities. The location and positioning of these devices shall be approved by the engineer to ensure that the motorist does not receive false information when two or more typical details overlap.

3. Operational signs are generally mounted on portable supports. These are normally used for short-term operations to warn and guide traffic through or around construction areas within a construction zone. Operational signs shall be installed prior to the start of operations as shown on the plans or as directed by the Engineer. Signs shall be maintained in proper position and kept clean and legible at all times. If needed, they shall be ballasted or weighted in some manner that they will be stable under wind and vehicle actions. The signs shall be removed when not applicable. The bottom of the sign shall be a minimum of 1 foot above the pavement surface.

4. The contractor shall mark all hazards within the limits of the project with well-maintained signs, barricades, warning and/or channelizing devices. On connecting roads, all barricades, signs, warning and/or channelizing devices shall be moved, supplemented, changed or removed as required during the progress of the construction as approved by the Engineer.

5. Flagger's attire shall include a fluorescent orange vest, shirt, or jacket worn as the outer layer of clothing. The flagger shall be equipped with a stop/slow paddle. Red flags will be acceptable in lieu of the paddle in emergency situations only. Flaggers, properly equipped and instructed, will be provided by the Contractors and stationed at the locations specified or as directed by the Engineer. A fluorescent orange cap may be required.

6. The Contractor shall be required to furnish, install, relocate, and maintain all traffic control devices, signs, barricades, warning, and/or channelizing devices for work sites and detour routes as shown in the traffic control details. The location and positioning of these barricades, signs, etc., shall be approved by the Engineer.

7. Work on the project or any separate activity therein shall not start until all the required signs, barricades, warning, and/or channelizing devices are installed and approved by the Engineer.

8. The Contractor shall contact the City of Asheville Traffic Engineering Division for city roads and NCDOT for State roads prior to beginning any work that will require the placement of signs or other traffic control devices to determine requirements of each entity. Contractor shall be responsible for obtaining all permits, paying all applicable fees and meeting all requirements of each entity.

9. Any existing pavement markings determined by the Engineer to be misleading or in conflict with the traffic control details shall be removed immediately by the contractor prior to proceeding with any construction activity.

10. All temporary pavement markings applied by the contractor shall be in paint unless otherwise specified on the plans or in the special provisions. Contractor shall supply and install all temporary pavement markings.

11. The contractor shall be required to provide property owners and tenants with access to their property throughout the project, including ingress and egress for businesses. Contractor shall coordinate construction activities with businesses along the construction route to minimize impacts.

12. Ballasting shall be done with sandbags or other yielding materials placed in such a position that they do not become missiles or cause unreasonable damage if hit by a motorist.

13. Contractor shall use temporary pavement as necessary to maintain one 12 foot minimum access lane for emergency vehicles at all times.

14. Portable traffic barricades shall conform to AASHTO roadside design guide standards for temporary longitudinal barriers.

15. Traffic control devices shall be located no closer than 5 feet to a trench at existing grade, measured from the side facing traffic.

16. Maximum spacing between channelizing devices shall be 20 feet in tangent areas, 20 feet in tapers, and 10 feet in radii unless otherwise indicated on the details.

17. Contractor shall be aware that when the construction area is in or near a vertical crest or horizontal curve, the work area shall be extended so that lane closure begins in advance of the curve and minimum stopping sight distance is met.

18. The contractor shall maintain a smooth transition from existing pavement to proposed paving operation.

19. The contractor shall not be allowed to stop traffic for more than 5 minutes at a time in one direction.

20. At night and during periods of construction inactivity, the difference in elevation between lanes shall not exceed 1 inch.

21. The contractor shall replace any existing pavement markings which have been obliterated by construction procedures at the end of each day's operations.

22. Contractor shall not work on both sides of the road simultaneously within the same area.

23. All travel lanes shall remain open during periods of construction inactivity, unless otherwise instructed by the Engineer.”

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\*\*\*\*\*

END OF ADDENDUM NO. 1



SECTION 00300

BID

SUBMITTED \_\_\_\_\_  
(Date)

BY \_\_\_\_\_

PROJECT IDENTIFICATION: **Central Business District Water System Upgrades**

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Proposal and the Agreement, and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Bidding Documents, including without limitation those dealing with the disposition of Bid Security.
3. In submitting this Bid, Bidder makes all representations required by the Instructions to Bidders and Special Provisions and further warrants and represents that:
  - (a) Bidder has examined copies of all the Bidding Documents, the Advertisement for Bids, the Instructions to Bidders, and of the following Addenda (receipt of all which is hereby acknowledged):  

No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____
  - (b) Bidder has familiarized himself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance, or furnishing the Work.
  - (c) Bidder has studied carefully all reports and drawings of subsurface conditions and drawings of physical conditions which are identified in Section 00205 as provided in Article 4 of the General Conditions, and accepts the determination set forth in Article 4 of the General Conditions and in Section 00205 of the extent of the technical data contained in such reports and drawings upon which Bidder is entitled to rely.
  - (d) Bidder has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, and studies (in addition to or to supplement those referred to in (c) above) which pertain to the subsurface or physical conditions at the site or otherwise may affect the cost, progress, performance or furnishing of the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of Article 4 of the General Conditions; and no

additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by Bidder for such purposes.

- (e) Bidder has reviewed and checked all information and data shown or indicated in the Contract Documents with respect to existing underground facilities at or contiguous to the site and assumes responsibility for the accurate location of said underground facilities. No additional examinations, investigations, explorations, tests, reports, or similar information or data in respect of said underground facilities are or will be required by Bidder in order to perform and furnish the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of Article 4 of the General Conditions.
  - (f) Bidder has correlated the results of all such observations, examinations, investigations, explorations, tests, reports, and studies with the terms and conditions of the Contract Documents.
  - (g) Bidder has given Engineer written notice of all conflicts, errors, or discrepancies that it has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Bidder.
  - (h) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm, or a corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for himself any advantage over any other Bidder or over Owner.
4. Bidder agrees to complete the Work for the prices(s) indicated in the Schedule of Prices which follows and is further described in Section 01015 Measurement and Payment.

## SCHEDULE OF PRICES

### CITY OF ASHEVILLE CENTRAL BUSINESS DISTRICT WATER SYSTEM UPGRADES

	DESCRIPTION OF ITEM	QUANTITY		UNIT PRICE <u>IN FIGURES</u>	TOTAL AMOUNT <u>IN FIGURES</u>
<b>1</b>	<b>FURNISH AND INSTALL DUCTILE IRON WATER MAIN PIPE</b>				
A.	8 - INCH PUSH-ON DUCTILE IRON WATER MAIN	2,163	LF	\$ _____	\$ _____
B.	8 - INCH RESTRAINT JOINT DUCTILE IRON WATER MAIN	3,264	LF	\$ _____	\$ _____
C.	12 - INCH PUSH-ON DUCTILE IRON WATER MAIN	1,260	LF	\$ _____	\$ _____
D.	12 - INCH RESTRAINT JOINT DUCTILE IRON WATER MAIN	1,250	LF	\$ _____	\$ _____
E.	16 - INCH PUSH-ON DUCTILE IRON WATER MAIN	306	LF	\$ _____	\$ _____
F.	16 - INCH RESTRAINT JOINT DUCTILE IRON WATER MAIN	1,252	LF	\$ _____	\$ _____
G.	24 - INCH PUSH-ON DUCTILE IRON WATER MAIN	1,286	LF	\$ _____	\$ _____
H.	24 - INCH RESTRAINT JOINT DUCTILE IRON WATER MAIN	7,806	LF	\$ _____	\$ _____
<b>2</b>	<b>FURNISH AND INSTALL DUCTILE IRON RESTRAINED FITTINGS</b>				
A.	6 and 8 - INCH RJ FITTINGS	9,273	LB	\$ _____	\$ _____
B.	12 - INCH RJ FITTINGS	5,489	LB	\$ _____	\$ _____
C.	16 - INCH RJ FITTINGS	13,404	LB	\$ _____	\$ _____
<b>3</b>	<b>FURNISH AND INSTALL 24-INCH DUCTILE IRON RESTRAINED FITTINGS</b>				
A.	24 - INCH 5.625 DEGREE BEND	4	EA	\$ _____	\$ _____
B.	24 - INCH 11.25 DEGREE BEND	24	EA	\$ _____	\$ _____
C.	24 - INCH 22.5 DEGREE BEND	6	EA	\$ _____	\$ _____
D.	24 - INCH 45 DEGREE BEND	39	EA	\$ _____	\$ _____
E.	24 - INCH 90 DEGREE BEND	2	EA	\$ _____	\$ _____

# SCHEDULE OF PRICES

## CITY OF ASHEVILLE CENTRAL BUSINESS DISTRICT WATER SYSTEM UPGRADES

	DESCRIPTION OF ITEM	QUANTITY		UNIT PRICE <u>IN FIGURES</u>	TOTAL AMOUNT <u>IN FIGURES</u>
F.	24-INCH X 24-INCH X 6-INCH TEE	20	EA	\$ _____	\$ _____
G.	24-INCH X 24-INCH X 8-INCH TEE	1	EA	\$ _____	\$ _____
H.	24-INCH X 24-INCH X 16-INCH TEE	1	EA	\$ _____	\$ _____
I.	24-INCH X 24-INCH X 24-INCH TEE	1	EA	\$ _____	\$ _____
4	<b>FURNISH AND INSTALL 10-INCH HIGH PRESSURE WATER MAIN PIPE, PRESSURE CLASS 52 DIP</b>	1,095	LF	\$ _____	\$ _____
5	<b>FURNISH AND INSTALL 10-INCH HIGH PRESSURE PIPE FITTINGS</b>	1,292	LB	\$ _____	\$ _____
6	<b>FURNISH AND INSTALL GATE VALVES</b>				
A.	6 - INCH GATE VALVE	2	EA	\$ _____	\$ _____
B.	8 - INCH GATE VALVE	2	EA	\$ _____	\$ _____
7	<b>FURNISH AND INSTALL BUTTERFLY VALVES</b>				
A.	12 - INCH BUTTERFLY VALVE	1	EA	\$ _____	\$ _____
B.	16 - INCH BUTTERFLY VALVE	1	EA	\$ _____	\$ _____
C.	24 - INCH BUTTERFLY VALVE	10	EA	\$ _____	\$ _____
8	<b>FURNISH AND INSTALL AIR RELEASE VALVE &amp; MANHOLE</b>	9	EA	\$ _____	\$ _____
9	<b>FURNISH AND INSTALL NEW SERVICE CONNECTIONS AND METER BOXES ON CITY ROADS</b>				
A.	5/8-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	16	EA	\$ _____	\$ _____
B.	3/4-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	16	EA	\$ _____	\$ _____
C.	1-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	17	EA	\$ _____	\$ _____
D.	1-1/2-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	10	EA	\$ _____	\$ _____
E.	2-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	10	EA	\$ _____	\$ _____

**SCHEDULE OF PRICES**

**CITY OF ASHEVILLE  
CENTRAL BUSINESS DISTRICT WATER SYSTEM UPGRADES**

	DESCRIPTION OF ITEM	QUANTITY		UNIT PRICE <u>IN FIGURES</u>	TOTAL AMOUNT <u>IN FIGURES</u>
10	FURNISH AND INSTALL NEW SERVICE CONNECTIONS AND METER BOXES ON NCDOT ROADS BY PUNCH METHOD			\$ _____	\$ _____
	A. 5/8-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	36	EA		
				\$ _____	\$ _____
	B. 3/4-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	39	EA		
				\$ _____	\$ _____
	C. 1-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	41	EA		
11				\$ _____	\$ _____
	D. 1-1/2-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	25	EA		
				\$ _____	\$ _____
	E. 2-INCH METER SERVICE CONNECTION, PIPING, AND METER BOX	25	EA		
				\$ _____	\$ _____
	REMOVE AND REPLACE EXISTING FIRE HYDRANTS & REPLACE WITH NEW FIRE HYDRANT AND VALVE	17	EA		
				\$ _____	\$ _____

## SCHEDULE OF PRICES

### CITY OF ASHEVILLE CENTRAL BUSINESS DISTRICT WATER SYSTEM UPGRADES

	DESCRIPTION OF ITEM	QUANTITY		UNIT PRICE <u>IN FIGURES</u>	TOTAL AMOUNT <u>IN FIGURES</u>
12	RECONNECT DEDICATED FIRE CONNECTIONS & EXISTING FIRE HYDRANTS	39	EA	\$ _____	\$ _____
13	TRENCHLESS CROSSING, WATER MAIN IN CASING				
A.	COLLEGE STREET ACROSS TUNNEL, STA 0+07 TO 1+22	1	LS	XXXXXX	\$ _____
14	TIE-IN OF EXISTING WATER MAIN TO NEW WATER MAIN				
A.	8 - INCH WATER MAIN CONNNECTION	15	EA	\$ _____	\$ _____
B.	12- INCH WATER MAIN CONNNECTION	5	EA	\$ _____	\$ _____
C.	16 - INCH WATER MAIN CONNNECTION	5	EA	\$ _____	\$ _____
D.	24 - INCH WATER MAIN CONNNECTION	26	EA	\$ _____	\$ _____
15	WATER MAIN CLEANING, TESTING, DISINFECTION, AND DISPOSAL OF RESIDUAL				
A.	8 - INCH WATER MAIN	5,427	LF	\$ _____	\$ _____
B.	10 - INCH WATER MAIN	1,095	LF	\$ _____	\$ _____
C.	12 - INCH WATER MAIN	2,510	LF	\$ _____	\$ _____
D.	16 - INCH WATER MAIN	1,557	LF	\$ _____	\$ _____
E.	24 - INCH WATER MAIN	9,092	LF	\$ _____	\$ _____
16	DRIVEWAY ENTRANCE APRON REMOVAL AND REPLACEMENT				
A.	CONCRETE DRIVEWAYS	110	SY	\$ _____	\$ _____
B.	ASPHALT DRIVEWAYS	1,045	SY	\$ _____	\$ _____
C.	GRAVEL DRIVEWAYS	3,740	SY	\$ _____	\$ _____

# SCHEDULE OF PRICES

## CITY OF ASHEVILLE CENTRAL BUSINESS DISTRICT WATER SYSTEM UPGRADES

	DESCRIPTION OF ITEM	QUANTITY		UNIT PRICE <u>IN FIGURES</u>	TOTAL AMOUNT <u>IN FIGURES</u>
17	ASPHALT PAVEMENT MILLING AND SURFACE COURSE	65,547	SY		
				\$ _____	\$ _____
18	REMOVE AND REPLACE CONCRETE SIDEWALKS	1,226	SY		
				\$ _____	\$ _____
19	REMOVE AND REPLACE ROUNDABOUTS	2	EA		
				\$ _____	\$ _____
20	REMOVE AND REPLACE CURB AND GUTTER	1,925	LF		
				\$ _____	\$ _____
21	SEWER RELOCATION AND REPLACEMENT AT WATER MAIN CROSSINGS				
A.	8-INCH DUCTILE IRON PIPE	1,378	LF		
				\$ _____	\$ _____
B.	10-INCH DUCTILE IRON PIPE	172	LF		
				\$ _____	\$ _____
C.	12-INCH DUCTILE IRON PIPE	172	LF		
				\$ _____	\$ _____
22	LANDSCAPING ALLOWANCE FIFTY THOUSAND DOLLARS AND ZERO CENTS			XXXXX	\$50,000
23	EXPLORATORY EXCAVATION ALLOWANCE	50	HR		
		1	LS	\$ _____	\$ _____
24	MOBILIZATION (MAXIMUM OF 2% OF ITEM 26)			\$ _____	\$ _____
	CONTRACT SUBTOTAL (SUMMATION OF BID ITEMS 1 THROUGH 27)			\$ _____	
25	CONTINGENCY ALLOWANCE TWO HUNDRED AND FIFTY THOUSAND DOLLARS AND ZERO CENTS			XXXXX	\$250,000
26	TRAFFIC SIGNALIZATION ALLOWANCE FIFTY THOUSAND DOLLARS AND ZERO CENTS			XXXXX	\$50,000
27	FURNISH AND INSTALL DUCTILE IRON WATER MAIN PIPE IN NCDOT ROADS BETWEEN THE HOURS OF 10 PM AND 6 AM	5,575	LF	\$ _____	\$ _____
28	TOTAL BASE BID (ITEMS 1- 27)			\$ _____	
29	BID ALTERNATIVE 1 FURNISH AND INSTALL 10-INCH HIGH PRESSURE WATER MAIN PIPE, CLASS 350 DIP	1,095	LF		

Award of contract shall be based on total base bid.

(REMAINDER OF PAGE LEFT BLANK)

5. The Bidder agrees that the Work shall be substantially completed within the prescribed calendar days as stipulated in Article 3 of the Agreement, and Article 14.8 of the General Conditions. Time commences to run as provided in Article 2.3 of the General Conditions, and will run continuously until the project is completed and ready for final payment in accordance with Article 14.13 and Article 14.14 of the General Conditions and Section 00500 of the Agreement.
6. The following documents are attached to and made a condition of this Bid:
- (a) General Contractor Qualification Statement (Section 00300)
  - (b) Bid Bond (Section 00410)
  - (c) Power of Attorney (for surety bond only)
  - (d) Non-collusive Affidavit (Section 00480)
  - (e) Debarred Firms (Section 00482)
  - (f) Corporate Authority to Execute Bid and Contract (any corporate employee other than President or Vice-President) (Section 00485)
  - (g) MB Utilization Commitment – MB Form 1 (Section 00200)
  - (h) MB Statement of Intent to Perform Work without Subcontracting – MB Form 2 (Section 00200)
  - (i) Drug-Free Workplace Certification (Section 00202)
7. List the names and addresses of the subcontractors to be used for the portions of the work listed below (list “self” if work will be performed by prime contractor).
- Untrenched Casing Subcontractor: \_\_\_\_\_
- Jack-and-Bore Shaft Engineer: \_\_\_\_\_
- Excavation Stabilization, Sheet piling & Shoring Protection Engineer: \_\_\_\_\_
- \_\_\_\_\_
- Dewatering Engineer: \_\_\_\_\_
- Drilling & Blasting: \_\_\_\_\_
- Paving: \_\_\_\_\_
8. Communications concerning this Bid shall be addressed to:
- Contact Name: \_\_\_\_\_
- Address: \_\_\_\_\_
9. The terms used in this Bid which are defined in the General Conditions of the Construction Contract included as part of the Contract Documents have the meanings assigned to them in the General Conditions.

The undersigned Bidder agrees that during the performance of this contract, he will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment upgrading, demotion, or transfer;



recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training including apprenticeship.

Our corporation will submit all certifications required herein prior to award and subject to approval of the funding agency.

Submitted on \_\_\_\_\_, 20\_\_\_\_.

Bidder is:

An Individual

By \_\_\_\_\_ (SEAL)  
(Individual's Name and Signature)

Doing business as \_\_\_\_\_

Business address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

N.C. License No.: \_\_\_\_\_

Type of License: \_\_\_\_\_

Limitations: \_\_\_\_\_

A Partnership

By \_\_\_\_\_ (SEAL)  
(Firm Name)

\_\_\_\_\_  
(General Partner's Name and Signature)

Business address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

N.C. License No.: \_\_\_\_\_

Type of License: \_\_\_\_\_

Limitations: \_\_\_\_\_

A Corporation

By \_\_\_\_\_ (SEAL)  
(Corporation Name)

\_\_\_\_\_  
(State of incorporation)

By: \_\_\_\_\_  
(Name and signature of person authorized to sign)

\_\_\_\_\_  
(Title)

(Corporate Seal)

Attest \_\_\_\_\_  
(Secretary)

Business address: \_\_\_\_\_

\_\_\_\_\_  
Phone No.: \_\_\_\_\_

N.C. License No.: \_\_\_\_\_

Type of License: \_\_\_\_\_

Limitations: \_\_\_\_\_

A Joint Venture

By \_\_\_\_\_  
(Name and Signature)

\_\_\_\_\_  
(Address)

N.C. License No.: \_\_\_\_\_

Type of License: \_\_\_\_\_

Limitations: \_\_\_\_\_

By \_\_\_\_\_  
(Name and Signature)

\_\_\_\_\_  
(Address)

N.C. License No.: \_\_\_\_\_

Type of License: \_\_\_\_\_

Limitations: \_\_\_\_\_

(Each joint venturer must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above).

END OF SECTION